**Adopt – An – Element Project**

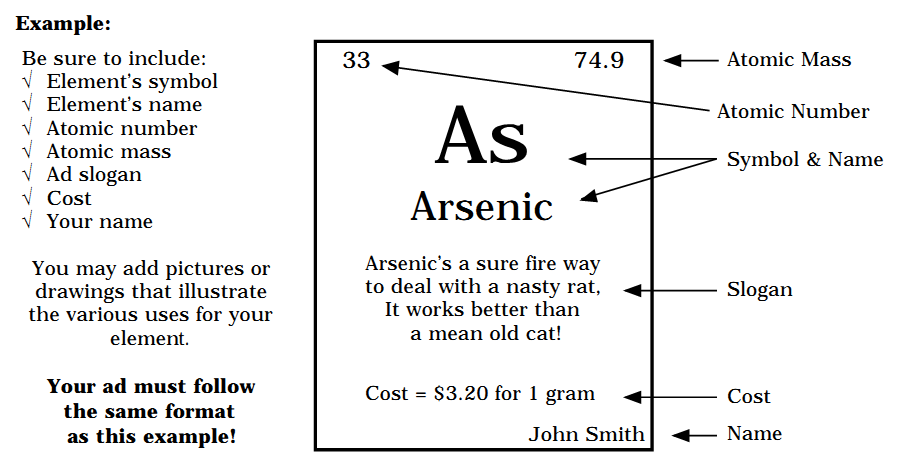
**Requirements:**

1. Complete an Adopt An Element information sheet. (40 % of Grade)

You may use a variety of reference sources. Possible ideas are encyclopedias (book or CD), sicence encyclopedias, science catalogs, magazines, and/or Internet sites\*\*\* (NO WIKIPEDIA ALLOWED). Information sheets must be neat, typed, and contain all the information requested. You also need to provide a list of your sources on a separate piece of paper. A minimum of example three sources are required. In the Interesting Information section, you can include things like economic uses/value, importance to living things, where it is found geographically, chemical properties, and common commercial forms of the element.

1. Create and advertisement for your element. (20 % of Grade)

The advertisement must include the element’s name, symbol, atomic number, atomic mass, cost, and an advertising slogan that describes one or more of its important uses. Advertisements much be neat, colorful, and contain all the information listed above. You may add pictures that relate to your advertisement theme. The advertisement can be creative (with pictures, art work, texture, etc.) or it can be clean-cut and neat. The advertisement needs to be no smaller than a 8 ½ x 11 piece of paper and no larger than a ½ sheet of poster paper. I will also accept a digital storybook or movie.



A list of some internet sites you might use include:

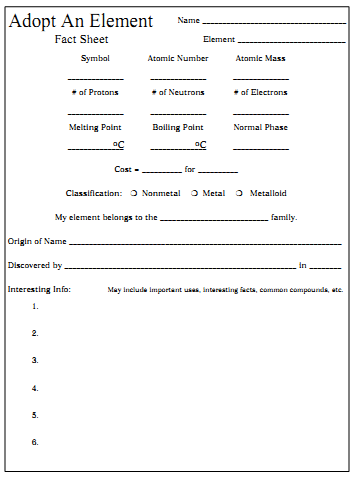
<http://www.sciencespot.net/Pages/kidzone.html> - Click on the Periodic Table link

<http://www.flinnsci.com/>

<http://wardsci.com/>

1. Build a three dimensional model of the atom that can be hung from the ceiling. (40% of Grade)
   1. The dimensions for the entire model should be around 12 x 12. This is just a general guideline, a few inches either way is fine.
   2. Some ideas for materials include Styrofoam balls, beads, tacks, stick pins, pipe cleaners, clay, wire, pine cones, etc. Please avoid the use of food to create the models. They dry out and often fall off the model and they can also attract insects.
   3. Your model must include the following labels:

Element name, chemical symbol, atomic number, atomic mass, the correct number of protons, neutrons, and electrons



**Adopt and Element Grading Rubric**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Advertisement** = 20 points (20%)

* Provided basic information \_\_\_\_\_\_ / 12
  + Atomic mass
  + Atomic number
  + Symbol
  + Name
  + Cost
  + Student’s name
* Slogan and pictures relevant \_\_\_\_\_ / 4
* Creative and/or Neat \_\_\_\_\_ / 2
* Correct spelling and grammar \_\_\_\_\_ / 2

**Information Sheet** = 40 points (40%)

* Provided information \_\_\_\_\_ / 20
  + Name
  + Protons
  + Boiling point
  + Symbol
  + Neutrons
  + Normal phase
  + Atomic number
  + Electrons
  + Atomic mass
  + Melting point
* Other Information \_\_\_\_\_ / 10
  + Cost
  + Nonmetal / metal / metalloid
  + Family
  + Origin of name
  + Discovery and date
  + ☼ ☼ ☼ ☼ Interesting Information / Used
* References (minimum of 3) \_\_\_\_\_ / 6
* Miscellaneous (Black ink / typed, correct spelling, neat, etc.) \_\_\_\_\_ / 4

**Atomic Model** = 40 points (40%)

* Labeled Correctly \_\_\_\_\_ /10
  + Name
  + Element name
  + Chemical symbol
  + Atomic number
  + Mass number
* Model is and accurate representation of the assigned element \_\_\_\_\_ / 21
  + Nucleus (correct particles, size, number, and location) – 14 points
  + Electron Cloud (correct particle, size, number, and location) – 7 points
* Neatness / correct dimensions / can hang from ceiling \_\_\_\_\_ / 9

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